

**I CLAIM:**

1. An air conditioning system comprising:

an air conditioning apparatus having a housing formed with a vent, said air conditioning apparatus discharging temperature-conditioned air currents through said vent;

a thermal cup including a hollow cup member made of a thermally conductive material and having an open mouth and a closed bottom, said cup member including an inner surrounding wall that confines a receiving space communicated with said open mouth and adapted to receive a body therein, an outer surrounding wall that cooperates with said inner surrounding wall to confine a vacuum sealed chamber therebetween, and a thermally conductive material disposed in said vacuum sealed chamber; and

a cup support mounted on said housing adjacent to said vent, said cup support holding said thermal cup adjacent to said vent such that the temperature-conditioned air currents discharged through said vent reach said thermal cup;

whereby, the temperature of the body received in said receiving space can be controlled by thermal convection.

2. The air conditioning system as claimed in Claim 1, wherein said thermal cup further includes a lid member that is disposed to close said open mouth of said cup

member.

3. The air conditioning system as claimed in Claim 1, wherein said cup support is mounted fixedly on said housing below said vent.

5. 4. The air conditioning system as claimed in Claim 1, wherein said cup support is mounted removably on said housing at said vent.

10 5. A cup and support assembly adapted for use with an air conditioning apparatus, the air conditioning apparatus discharging temperature-conditioned air currents through a vent in a housing of the air conditioning apparatus, said cup and support assembly comprising:

15 a thermal cup including a hollow cup member made of a thermally conductive material and having an open mouth and a closed bottom, said cup member including an inner surrounding wall that confines a receiving space communicated with said open mouth and adapted to receive a body therein, an outer surrounding wall that  
20 cooperates with said inner surrounding wall to confine a vacuum sealed chamber therebetween, and a thermally conductive material disposed in said vacuum sealed chamber; and

25 a cup support adapted to be mounted on the housing adjacent to the vent, said cup support being adapted to hold said thermal cup adjacent to the vent such that the temperature-conditioned air currents discharged

through the vent reach said thermal cup;

whereby, the temperature of the body received in said receiving space can be controlled by thermal convection.

5 6. The cup and support assembly as claimed in Claim 5, wherein said thermal cup further includes a lid member that is disposed to close said open mouth of said cup member.

10 7. A method of controlling the temperature of a body, comprising:

a) providing a thermal cup that includes a hollow cup member made of a thermally conductive material and having an open mouth and a closed bottom, the cup member including an inner surrounding wall that confines a receiving space communicated with the open mouth, an  
15 outer surrounding wall that cooperates with the inner surrounding wall to confine a vacuum sealed chamber therebetween, and a thermally conductive material disposed in the vacuum sealed chamber;

20 b) disposing the body in the receiving space; and

c) holding the thermal cup adjacent to a vent in a housing of an air conditioning apparatus such that temperature-conditioned air currents discharged by the air conditioning apparatus through the vent reach the  
25 thermal cup;

whereby, the temperature of the body received in the receiving space can be controlled by thermal

convection.

8. The method as claimed in Claim 7, wherein step c) includes providing a cup support on the housing of the air conditioning apparatus adjacent to the vent, and  
5 disposing the thermal cup together with the body on the cup support.

9. The method as claimed in Claim 7, wherein the body is a beverage can.

10. The method as claimed in Claim 7, wherein the body  
10 is a food can.